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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------------|----------------------|---------------------|------------------|
| 10/624,410 | 07/21/2003 | Huanzhao Zeng | 200300621-1 | 6800 |
| 22879 7590 07/02/2007 HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD | | | EXAMINER | |
| | | | MILIA, MARK R | |
| INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400 | | ART UNIT | PAPER NUMBER | |
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| | | | 07/02/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | | | |
|---|---|--------------|--|--|--|--|
| Office Assistant Community | 10/624,410 | ZENG ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Mark R. Milia | 2625 · | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowan closed in accordance with the practice under E. | action is non-final. ce except for formal matters, pro | | | | | |
| Disposition of Claims | | | | | | |
| 4) | lection requirement. | · · | | | | |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa | te | | | | |

Application/Control Number: 10/624,410

Art Unit: 2625

Page 2

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - 1. Claims 1-17 and 43-50, drawn to generating a first linearization data structure having a first plurality of output values to output intensity pairs for a first pen and generating, based in part on the first linearization of the first pen, a second linearization data structure having a second plurality of output values to output intensity pairs for a second pen to conform output intensities of the second pen to that of the first pen, classified in class 358, subclass 1.9.
 - II. Claims 18-25 and 29-38, drawn to selecting a first output value to output intensity pair of a first linearization of a first pen, generating a first plurality of color space model values for the first output intensity, determining a second output value of a second pen having a second plurality of color space model values substantially proximate the first plurality of color space model values, and forming a second output value to output intensity for a second pen using the determined second output value and output intensity, classified in class 358, subclass 1.9.
 - III. Claims 26-28, drawn to receiving a first desired colorant, including a first intensity, for a pixel of an image to be printed, selecting a first pen

Art Unit: 2625

corresponding to the first desired colorant, accessing a first linearization data structure of the first pen to determine a first output value, the first linearization having been established in view of a second linearization data structure of a second pen to conform color intensities, and driving the first pen to output the desired colorant onto media, classified in class 358, subclass 1.9.

IV. Claims 39-42, drawn to a first pen to selectively output a first colorant at different intensities and a first linearization data structure having a first plurality of output values to output intensity pairs formed in view of a second linearization of a second pen equipped to also output the first colorant at different intensities to conform the intensities of the first colorant outputted by the first pen with that of the second pen, classified in class 358, subclass 1.9.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I, II, III, and IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, invention I has separate utility such as generating second linearization data based in part on first linearization data to conform output intensities of a first and second pen. Invention II has separate utility such as it generates color space model values associated with output intensities. Invention III ahs separate utility such as it deals with a colorant and an intensity of the

Art Unit: 2625

colorant and selects a pen based on the colorant. Invention IV has separate utility such as having a pen select output colorants at different intensities and conforming the intensities of the colorant outputted by a first pen with that of a second pen. See MPEP § 806.05(d).

The examiner has required restriction between subcombinations usable together. Where applicant elects a subcombination and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

- 3. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.
- 4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

Art Unit: 2625

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark R. Milia whose telephone number is (571) 272-7408. The examiner can normally be reached M-F 8:00am-4:00pm.

Application/Control Number: 10/624,410

Art Unit: 2625

Page 6

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler M. Lamb can be reached at (571) 272-7406. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Mark R. Milia Examiner

Art Unit 2625

MRM

TWYLER LAMB
SUPERVISORY PATENT EXAMINER